

Sanitized Copy Approved for Release 2011/09/12 : CIA-RDP83-01074R000300560003-4

Sanitized Copy Approved for Release 2011/09/12: CIA-RDP83-01074R000300560003-4 CONFIDENTIAL 25X1 NO FOREIGN DISSEM (c) NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER REFERENCE: 25X1 ATTACHMENT 10 M-6861 9 JUNE 1969 PAGE 1 OF 3 SA-2 REACTIONS TO RECONNAISSANCE AIRCRAFT NORTH VIETNAM SIGNIFICANCE: THIS BRIEFING BOARD PROVIDES SOME RARE TECHNICAL OBSERVATIONS OF THE SA-2 MISSILE IN FLIGHT AND AT THE POINT OF DETONATION. LOCATION: HAIPHONG AREA BACKGROUND: THERE HAVE BEEN MORE THAN 5000 SA-2 FIRINGS IN NORTH VIETNAM ACHIEVING LIMITED SUCCESS. BOTH MISSILES IN FLIGHT AND DETONATING HAVE BEEN SEEN BEFORE BUT NEVER ON PHOTOGRAPHY OF THE INTERPRETABILITY SHOWN ON THIS BOARD.

4. MISSION READOUT:

PHOTOGRAPHED AN SA-2

25X1

MISSILE IN FLIGHT, 6.9 NM SOUTHWEST OF HAIPHONG. THE MISSILE IS A MOD I/II VERSION AS IDENTIFIED BY THE LOCATION OF THE FUSING ANTENNAS. THE NOSE PROBE OR PITOT TUBE IS ALSO CLEARLY VISIBLE. THE NEXT FRAME OF PHOTOGRAPHY TAKEN A

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	NO FOREIGN DISSEM	25 <b>X</b> 1
•	(c) NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER	
REFERENCE:	ATTACHMENT TO 9 JUNE 1969 PAGE 2 OF 3	25 <b>X</b> 1
FRACTION C	F A SECOND LATER SHOWS THE SHADOW OF THE MISSILE DETONATION ON THE	
GROUND.		
	PHOTOGRAPHED AN SA-2 WARHEAD	25 <b>X</b> 1
ALMOST AT	THE PRECISE INSTANT OF DETONATION. THIS RARE PHOTOGRAPH PROVIDED CLOSE	
OBSERVATIO	N OF THE RESULTANT DONUT-SHAPED BLAST RING.	
	SHOWS THE	25 <b>X</b> 1
SHOOTDOWN	OF AN RF-4C AIRCRAFT BY AN SA-2 MISSILE OVER HANOI. THIS IS THE TYPE	
BURST NORM	MALLY SEEN ON PHOTOGRAPHY.	

#### 5. REMARKS:

THE PHOTOGRAPHY WHICH SHOWS THE MISSILE IN FLIGHT GIVES THE FIRST CLEAR
LOOK AT THE PITOT TUBE ON THE SA-2 MOD I/II MISSILE. THIS TUBE ONLY EXTENDS
WHEN THE MISSILE IS IN FLIGHT WHEREAS ON THE MOD III AND IV VERSION IT IS
PERMANENTLY EXTENDED. THE MISSILE WAS AT A DISTANCE OF 135 FEET FROM THE DRONE
WHEN IT WAS PHOTOGRAPHED AND DETONATED AN INSTANT LATER FROM AND SLIGHTLY25X1
TO THE REAR OF THE DRONE. APPARENTLY THE SHAPE OF THE CHARGE IN THE WARHEAD
ALLOWED THE DRONE TO ESCAPE DESTRUCTION.

THE BLAST PATTERN OBSERVED IS THE FIRST TIME A COMPLETE PATTERN AT THE INSTANT OF DETONATION HAS BEEN OBSERVED ALTHOUGH A SMALL PORTION OF THIS PATTERN WAS OBSERVED IN JULY 1968.

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Sanitized Copy Approved for Release 2011/09/12 : CIA-RDP83-01074R000300560003-4 CONFIDENTIAL 25X1 NO FOREIGN DISSEM (c) NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER 25X1 REFERENCE: ATTACHMENT TO M-6861 9 JUNE 1969 PAGE 3 OF 3 THE DRONE, WHEN FIRED UPON, WAS TRAVELING AT APPROXIMATELY 480 KNOTS, AT AN ALTITUDE OF 1,130 FEET. THE MISSILE WHEN PHOTOGRAPHED 25X1 WAS TRAVELING AT APPROXIMATELY 1,800 FT/SEC (1,080 KNOTS) AT AN ALTITUDE OF 1,140 FEET AND IN THE OPPOSITE DIRECTION OF THE DRONE. 25X1

MAP REFERENCE: AMS SERIES L7014, SHEET 6350 IV, SCALE 1:50,000

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